

What is claimed is:

- 1 1. A system, within a wireless telecommunications network, comprising:
2 at least one master mobile terminal (12a), each of which is
3 responsive to user input, and each of which is for providing an
4 outgoing radio signal (264), wherein the outgoing radio signal
5 synchronously shares information about at least one internally
6 controlled shared document that is exclusively controlled by the
7 master mobile terminal; and
8 at least one slave terminal (12b or 18), responsive to the
9 outgoing radio signal (264), for providing an external document
10 display signal (226).
- 1 2. The system as in claim 1, further comprising means for audio discussion
2 simultaneous with real-time document sharing.
- 1 3. A mobile terminal (12a) equipped with an antenna for transmitting an
2 outgoing radio signal (264) and for receiving an incoming radio signal
3 (266), in a wireless telecommunications system, comprising:
4 an input device (210), responsive to user input, for providing
5 an internal document manipulation signal (213), wherein the internal
6 document manipulation signal is for exclusively manipulating at least
7 one internally controlled shared document that is synchronously
8 shared with at least one other terminal (12b or 18);
9 a receiver (270), responsive to the incoming radio signal
10 (266), for forwarding an external document manipulation signal
11 (256), wherein the external document manipulation signal is for
12 exclusively manipulating at least one externally controlled shared
13 document that is synchronously shared with the at least one other
14 terminal;

15 a signal processor (221), responsive to the external document
16 manipulation signal (256) and the internal document manipulation
17 signal (213), for providing a synchronized internal document sharing
18 signal (236), an internal document display signal (244), and an
19 external document display signal (226);

20 a transmitter (268), responsive to the synchronized internal
21 document sharing signal (236), for providing the outgoing radio
22 signal (264); and

23 a display (238), responsive to the internal document display
24 signal (244) and the external document display signal (226), for
25 providing visual communication to the user.

1 4. The mobile terminal (12a) of claim 3, wherein the mobile terminal is
2 capable of being a slave terminal and is also capable of being a master
3 terminal, with respect to different shared documents concurrently.

1 5. The mobile terminal (12a) of claim 3, wherein the mobile terminal is
2 capable of being a slave terminal and is also capable of being a master
3 terminal, but at different times only.

1 6. The mobile terminal (12a) of claim 3, wherein:

2 the mobile terminal further comprises a speaker (228),
3 responsive to a speaker signal (272), for providing audio output to the
4 user;

5 the mobile terminal further comprises a microphone (217),
6 responsive to oral input, for providing an audio input signal (219);

7 the receiver is also for providing a received audio signal
8 (274);

9 the signal processor is also responsive to the received audio
10 signal (274), and responsive to the audio input signal (219), and is

11 also for providing an outgoing audio signal (239), and for providing a
12 speaker signal (272); and

13 the transmitter is also responsive to the outgoing audio signal
14 (239).

1 7. The mobile terminal of claim 6, wherein the mobile terminal (12a) is
2 capable of supporting an audio conversation in real time, simultaneously
3 with real time document sharing.

1 8. The mobile terminal (12a) of claim 3, wherein the display (238) is
2 capable of superimposing the at least one internally controlled shared
3 document with the at least one externally controlled shared document,
4 thereby allowing two or more documents controlled by different
5 controlling terminals (12a and either 12b or 18) to be superimposed over
6 each other.

1 9. The mobile terminal (12a) of claim 8, wherein the at least one internally
2 controlled shared document and the at least one externally controlled
3 shared document comprise calendar documents, wherein the calendar
4 documents are superimposed in real time, and wherein the display
5 changes in real time as the controlling terminals respectively manipulate
6 the calendar documents.

1 10. The mobile terminal of claim 3 wherein the signal processor (221)
2 comprises:

3 external shared document memory means (320), responsive to the
4 external document manipulation signal (256), for providing the external
5 document display signal (226); and

6 internal shared document memory means (314), responsive to the
7 internal document manipulation signal (213), for providing the internal

8 document display signal (244) and for providing the synchronized internal
9 document sharing signal (236).

1 11. The mobile terminal of claim 10, wherein the external shared document
2 memory means (320) is capable of including a group of synchronously
3 updated documents which mirrors a corresponding group of documents at an
4 information center (460), said at least one other terminal (12b or 18)
5 comprising said information center (460), and said at least one externally
6 controlled shared document comprising said group of synchronously updated
7 documents.

1 12. The mobile terminal of claim 10, wherein the internal shared document
2 memory means (314) is capable of including a group of internal documents
3 which is mirrored by a corresponding group of documents at an information
4 center (460), said at least one other terminal (12a or 18) comprising said
5 central information center (460), and said at least one internally controlled
6 shared document comprising said group of internal documents.

1 13. The mobile terminal of claim 6 wherein the signal processor (221)
2 comprises:

3 external shared document memory means (320), responsive to the
4 external document manipulation signal (256), for providing the external
5 document display signal (226);

6 internal shared document memory means (314), responsive to the
7 internal document manipulation signal (213), for providing the internal
8 document display signal (244) and for providing the synchronized internal
9 document sharing signal (236);

10 incoming audio processing means (376), responsive to the received
11 audio signal (274), for providing a speaker signal (272); and

12 outgoing audio processing means (382), responsive to the audio input
13 signal (219), for providing the outgoing audio signal (239).

1 14. A method of sharing information in a wireless telecommunications
2 network, comprising the steps of:

3 providing an outgoing radio signal (264) in response to user
4 input, wherein the outgoing radio signal synchronously shares
5 information about at least one internally controlled shared document,
6 and

7 providing an external document display signal (226) in
8 response to the outgoing radio signal (264).

1 15. The method of claim 14, further comprising the step of conducting
2 audio discussion simultaneous with real-time document sharing.